First Nations Water Rights in British Columbia

A Historical Summary of the rights of the Nadleh Whuten First Nation

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MINISTRY OF ENVIRONMENT, LANDS and PARKS
WATER MANAGEMENT BRANCH

FIRST NATIONS WATER RIGHTS IN BRITISH COLUMBIA:

A Historical Summary of the rights of the Nadleh Whuten First Nation

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Edit by:	Miranda Griffith Daniela Mogus
Review by:	Gary W. Robinson
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Kelly Babcock
Daniella Mogus
Miranda Griffith
Christina Rocha
Rachel Abrams
Elizabeth Lee
Sara Cheevers

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The sheer numbers of First Nations groups' with histories of water rights made the completion of the Report Series seem, at times, prolonged. The determination, patience and vision of the partners was essential in the completion of the Series and is gratefully acknowledged.

Gary Robinson
Project Manager
Water Management Branch

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FIRST NATIONS WATER RIGHTS REPORT

BAND: Nadleh Whuten (formerly Fraser Lake)

ADDRESS: P.O. Box 36, Fort Fraser, B.C., V0J 1N0

CHIEF: George Lacerte

PHONE: 690-7211 **FAX:** 690-7316

AFFILIATION: Carrier-Sekani Tribal Council

LOCATION:

The Nadleh Whuten Band occupy seven (7) reserves in the Fraser Lake area in the central interior of the province, near the Village of Fraser Lake. Located within the Interior Plateau, the reserves range in size from 4 hectares to 563.5 hectares, for a total of 966.3 hectares. The Reserves include:

Canyon Lake (Ormonde Lake) 7
Fondeur No. 9
Fraser Lake 2
Nautley No. 1
Ormonde Creek 8
Seaspunkut No. 4
Yensischuck 3

Reserves with records of water allocations are:

Nautley No. 1 - a 563.5 hectare Reserve located on the east end of Fraser Lake, bordered on the east by the Nechako River.
Seaspunkut No. 4 - a 205.5 hectare Reserve located on the south shore of Fraser Lake.

The most recent population figures compiled by the Ministry of Finance show 203 persons living on the 7 reserves listed above, and 136 band members living off reserve, for a total population of 339.

The reserves range in elevation from 2200 to 2700 feet above mean sea level. Average daily temperatures in the area range from -15 degrees centigrade in January to 16 degrees centigrade in July. The average annual rainfall for the area totals between 30 and 50 centimetres.

Water courses of significance include:

- Fraser Lake - which flows east into the Nautley River and borders three of the Band's reserves

- Nautley River - which flows east out of Fraser Lake directly through the middle of Nautley Reserve No. 1, and into the Nechako River.

WATER ALLOCATIONS:

There are no record of water allocations made by either the Indian Reserve Commission, by the Lieutenant Governor in Council (by Order in Council), or by Determinations of the Board of Investigation. No actions to amend licensed rights pursuant to provisions in the Water Act, have occurred with respect to the Nadleh Whuten Band.

The water rights of the Nadleh Whuten have been recorded or affected by one action of government over the years:

1) The granting of water licences in response to Federal Government applications for the use of water on reserves.

HISTORY, CURRENT STATUS, AND NOTES:

The history of water rights, the current status of rights and notes for the Nadleh Whuten with respect to Fraser Lake and Nautley River are as follows:

Fraser Lake

History:

June 1, 1970 In accordance with an application by the Superintendent General of Indian Affairs, the Comptroller of Water Rights issued Conditional Water Licence 35710, bearing a precedence date of July 21, 1967. This licence authorizes the diversion and use of 20,000 gallons a day for domestic purposes, year-round. The land upon which the water is to be used and to which the licence is appurtenant is Seaspunkut Reserve No. 4, with the exception of the Canadian National Railway Right-of-Way and the Northern

Trans-Provincial Highway.

Accompanying Conditional Licence 35710 was Permit No. 7581, which authorized the occupation of 0.03 acres of unsurveyed foreshore and Crown Land covered by water, 75 feet in length and 15 feet in width.

Dec 6, 1977 The Prince George District of Indian and Northern Affairs wrote to the Comptroller stating that they wished to advise that all billings with reference to the Permit 7581 (associated with Conditional Licence 35710) should be directed to the Fraser Lake Band, as all funding had been transferred to them for such purposes. It was also requested that the Agreements be altered so that they were in the name of the Fraser Lake Band.

Mar 3, 1982 After receiving a bill from the Comptroller for the annual rental for the right of way permit over Crown Land, the Band returned the bill and claimed that they were not responsible for paying.

Aug 1, 1982 An Indenture between Her Majesty the Queen and Mary and George Voth stated that the whole of Lot 5, Block A, of the Nautley Reserve No. 1 had been surrendered by the band since March 1, 1959, and that a November 3, 1982 Resolution by the Council of the Band consented to the leasing of the land.

Apr 6, 1983 The Deputy Comptroller wrote the Band to notify them that if the rentals were not paid within 60 days of the date of the letter, Permits over Crown Land 6440 and 7581 would be cancelled.

July 25, 1983 The Deputy Comptroller asked the Regional Water Manager of Region 7, Omineca-Peace, to review Conditional Water Licences 32076 and 35710 to determine if there were legitimate grounds for cancellation of the licences as well as the permits.

Sept 8, 1983 A water supply technician with the Omineca Peace/Skeena Regions submitted a memo that he met with Chief George Sr. who informed him that due to the pending land claims issue, the Band had no intention of paying moneys due. He stated also that the water sources were still being used.

Sept 13, 1983 The Regional Water Manager of the Omineca Peace Region write the Deputy Comptroller of Water Rights to ask if there was

any way that the Department of Indian Affairs could pay the rentals until the land claims have been settled.

Mar 12, 1985 The account was paid as of this day, and it appears from the files that Indian Affairs may have arranged to pay for the Permits over Crown Land.

Jan 21, 1988 In accordance with an application filed by Mary and George Voth, the Comptroller of Water Rights issued Conditional Water Licence 64618 to the Government of Canada (licensee), in co-operation with Mary and George Voth of Fort Fraser, B.C. This licence bears a precedence date of October 17, 1983, and authorizes the use of up to 500 gallons a day, year-round, for domestic purposes. The land upon which the water is to be used and to which this licence is appurtenant is Lot 5 of Block A, Nautley Reserve No. 1, to be used in one dwelling.

Accompanying Conditional Water Licence 64618 was Permit No. 16005 which authorized the occupation of 0.2 acres of foreshore and unsurveyed Crown Land, 580 feet in length and 15 feet in width.

Current Status:

There are currently a total of 11 licences on Fraser Lake. Of these licences;

- 2 authorize the use of water for irrigation purposes, of 21.75 and 8.25 acre feet per year, from April 1 to September 30.
- 4 authorize the use of water for domestic purposes, three of which are 500 gallons per day, and one of which is 2000 gallons a day, all being used year-round.
- 2 authorize the use of large amounts of water for waterworks, of 18,250,000 gallons per year and 122,640,000 gallons per year, both being used year-round.
- 2 licences authorize the use of smaller amounts of water for the purpose of waterworks, of 10,000 gallons a day year-round and 20,000 gallons a day year-round.
- 1 licence authorizes the use of 4,000 gallons a day year-round for processing, as well as 4,500 gallons a day year-round for the purpose of enterprise.

The rights held by the Nadleh Whuten under Conditional Licence 35710 are seventh in priority on Fraser Lake. The rights held by Indian Affairs for the licensee George and Mary Voth, in Conditional Licence 64618, are tenth in priority.

Information on file indicates that Conditional Water Licence 35710 on Fraser Lake is only being partially used by the Band.

Water Survey of Canada has no records for Fraser Lake. An Engineer's Report on a Water Application of December 8, 1987 states that Fraser Lake has a volume of 588,000 acre feet, a mean depth of 44 feet, 15 inlet creeks and 1 outlet river.

Notes:

1. Indian Affairs is currently securing the water rights of the Band on Fraser Lake by paying for the Permit Over Crown Land, as the Band is maintaining their position of non-payment.

2. Under current licensing practices Conditional Water Licence 35710 would be issued for waterworks purposes. The amendment of this licence would allow for the designation of the Fraser Lake drainage area as a Community Watershed under the Forest Practices Code.

3. Lejac Residential School, to which water was allocated under Conditional Water Licence 35710, has been closed down.

4. No other current information is available on the use of water under Conditional Licence 35710 on Seaspunkut No. 4.

Nautley River

History:

Mar 15, 1967 In accordance with an application filed by Indian Affairs, the Comptroller of Water Rights issued Conditional Water Licence 32076, bearing a precedence date of January 24, 1966. The licence authorizes the diversion and use of 20,000 gallons of water a day, year-round, for waterworks purposes. The land upon which the water is to be used and to which the licence is appurtenant is that part of Reserve No. 1 (Nautley) lying north of the Nautley and Nechako Rivers.

Accompanying Conditional Water Licence 32076 was Permit No.

6440, which authorized the occupation of 0.09 acres of unsurveyed foreshore and Crown Land covered by water situated in Nautley River, 270 feet in length and 15 feet in width.

Jul 27, 1970 The Department of Indian and Northern Affairs (Lakes District) requested of the Band that the outstanding account (listed as Water Licence C032076) be paid.

Jul 8, 1981 The Comptroller of Water Rights wrote the Department of Indian and Northern Affairs stating that the annual rental for the Permit over Crown Land had not been paid for 3 years, and their attention to the matter would be appreciated.

Aug 31, 1981 In response, Indian Affairs instructed Water Resources to deal with the Band.

The same correspondence which dealt with Conditional Water Licence 35710 also applies to Conditional Licence 32076, from March 3, 1982 onward.

Current Status:

The Nadleh Whuten currently hold the only licence on the Nautley River, under Conditional Licence 32076, and therefore have first priority on this source.

Information on file indicates that Conditional Water Licence 32076 on Nautley River has not been used by the Band since 1986.

Water Survey of Canada records show that gauging station 08JB003 has been operating from 1950 to 1990 on the Nautley River. Over this time period, this station recorded a low mean monthly flow of 11.5 cubic metres per second in March, increasing to a high in June of 88.2 cubic metres per second. Ice conditions are sometimes present in the winter and early spring.

Notes:

Indian Affairs is currently securing the water rights of the Band on the Nautley River by paying for the Permit Over Crown Land, as the band is maintaining their position of non-payment.

OTHER INFORMATION:

Groundwater Records:

Review of records of the Groundwater Section finds evidence of 11 wells on Seaspunkut No. 4 and Nautley No. 1. Five wells have reported yields, from 1 to 25 gallons a minute. The extent to which these wells are utilized at this time is unknown. Further details are attached to this report.

As provision of this information to the Groundwater Section is voluntary, it cannot be assumed to be complete.

Municipal Water Sources:

The Village of Fraser Lake has licences to obtain water from Fraser Lake for waterworks purposes. Reports on water consumption in 1993 indicate that the District used 68,423,720 imperial gallons of water for that year, which is 49% of their permitted usage, and leaves a surplus of 72,466,280 gallons per year.

The proximity of the reserve Seaspunkut No. 4 to the Village of Fraser Lake presents the potential for water supply to the reserve via a municipal water system.

ATTACHMENT 1

Summary of Water Records

Nadleh Whuten Band

Water Source	Priority Date	Reserve Name	File Number	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Fraser Lake	1967/07/21	Seaspunket #4	277583	CL 35710	Current		20,000 GAD/Waterworks	CL 35710: Priority 7 - Fraser Lake.
Fraser Lake	1983/10/17	Nautley #1 (Fort Fraser)	7000146	CL 64618	Current		500 GAD/ Domestic	CL 64618: Issued at request of lessee Mary/George Voth. Priority 10 - Fraser Lake. Potential designation "Community Watershed"; require amendment - "watrwrks"
Nautley River	1966/01/24	Nautley #1 (Fort Fraser)	267141	CL 32076	Current		20,000 GAD/Waterworks	CL 32076: Indian Affairs: Securing water rights by paying *"Permit Over Crown Land "*; Band maintaining position of non-payment.

LEGEND:

Licence Types (Document Types)
CL: Conditional Licence
FL: Final Licence

Mechanisms for Allocation (Document Type)
OIC: Order-in-Council (as issued by the Luitenant Governor in Council)
MOD: Minute of Decision (as recorded under the Indian Reserve Commission)
IRC: Indian Reserve Commission
AGBC: Attorney Generals Office of BC (followed by File #)

Allotment Units (Licence PUC/MOD & OIC Allotments)
GAD: Gallons a day
AF: Acre feet
CFS: Cubic feet per second

ATTACHMENT 2

WATER MANAGEMENT BRANCH

MINISTRY OF ENVIRONMENT AND PARKS

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Government of Canada (licensee) c/o Department of Indian Affairs and Northern Development, Parliament Buildings, Ottawa, Ontario, K1A 0A6 in co-operation with George R. and Mary K. Voth of General Delivery, Fort Fraser, B.C. V0J 1N0

are hereby authorized to divert and use water as follows:

(a) The stream on which the rights are granted is Fraser Lake.

(b) The point of diversion is located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 17th October, 1983.

(d) The purpose for which this licence is issued is domestic.

(e) The maximum quantity of water which may be used is 500 gallons a day.

(f) Water may be used throughout the whole year.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Lot 5 of Block A, Nautley Indian Reserve Number 1, British Columbia, Canada, Lands Surveys Records Plan 5134, Ottawa; Nautley Indian Reserve Number 1, British Columbia, Range 5, Coast District (Land Registry Office Plan File 12525).

(h) The works authorized to be constructed are pipe and pump, which shall be located approximately as shown on the attached plan.

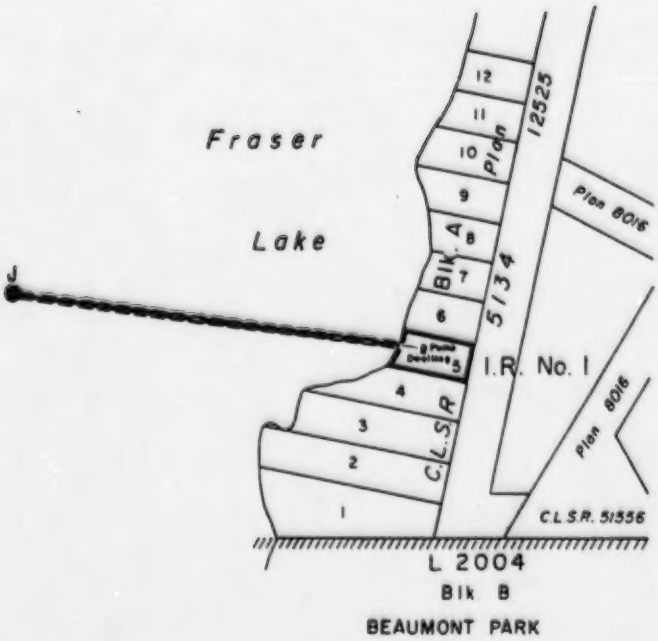
(i) The construction of the said works has been completed and the water is being beneficially used and the licensee shall continue to make a regular beneficial use of wtaer in the number authorized herein.

(j) This licence authorizes the use of water for domestic purpose in one dwelling located approximately as shown on the attached plan.

D. W. Roberts, P.Eng.
Regional Water Manager
Northern Region

File No. 7000146 Date issued: JAN 21 1988 Conditional Licence 64618

Province of British Columbia



WATER DISTRICT : PRINCE GEORGE
PRECINCT : VANDERHOOF
LAND DISTRICT : RANGE 5 COAST

LEGEND

Scale : 200 Feet to 1 Inch
Point of Diversion : ●
Map Number : WR 93-K-007
Pipe : —— – ——
Permit over Crown Land: ▬▬▬▬

Signature S.A. Roberts
Date JAN 2 1 1988

C.L. 64618
File 7000146
P.C.L. 16005

The boundaries of the land to which this licence

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS
AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Superintendent General of Indian Affairs (Stuart Lake Agency),
OTTAWA, Ontario,

is/are hereby authorized to divert and use water as follows:—

(a) The source(s) of the water-supply is/are Fraser Lake.

(b) The point(s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 21st July, 1967.

(d) The purpose for which the water is to be used is waterworks.

(e) The maximum quantity of water which may be diverted is 20,000 gallons a day,

and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is the whole year.

(g) The land upon which the water is to be used and to which this licence is appurtenant is
Indian Reserve No.4, Seaspunkut, Range 5, Coast District, except Canadian National Railway Right-of-Way and Northern Trans Provincial Highway.

(h) The works authorized to be constructed are diversion structure, pump, pipe and tank,

which shall be located approximately as shown on the attached plan.

(i) The construction of the said works has been commenced, and shall be completed and the water beneficially used on or before the 31st day of December, 1972.

ENTERED ON
Sheet No. 93K/SE-A
By

H. D. DeBeck,
Comptroller of Water Rights.

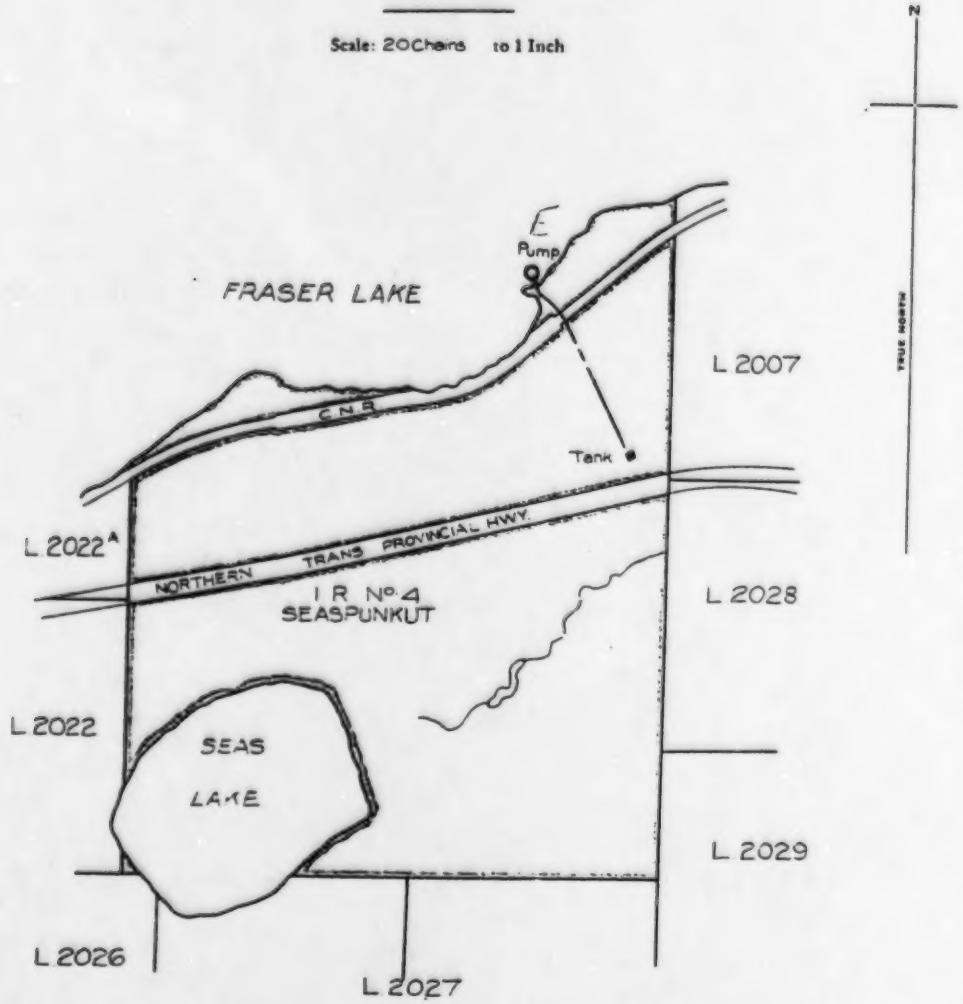
File No. 0277583 Date issued: 1 June, 1970 Conditional Licence No. 35710

British Columbia

PRINCE GEORGE
~~FORT FRASER~~ WATER DISTRICT

R.5 , COAST DISTRICT

Scale: 20 Chains to 1 Inch



LEGEND

Point of Diversion O
~~Beer~~ Map ~~93K82(A-2)~~
Pipe — — —
Right-of-Way

The boundaries of the land to which this licence is appurtenant are shown thus: ———

Signature

Date June 1st 1970

EXHIBIT "A"

CL 35110
File 0277583
R/W Permit 7581

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS,
AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Director, Indian Affairs Branch,
Department of Northern Affairs and
National Resources of OTTAWA, Ontario

is/are hereby authorized to divert and use water as follows:—

(a) The source(s) of the water-supply is/are Nautley River.

(b) The point(s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 24th January, 1966.

(d) The purpose for which the water is to be used is waterworks.

(e) The maximum quantity of water which may be diverted is 20,000 gallons a day,

and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is the whole year.

(g) The land upon which the water is to be used and to which this licence is appurtenant is

that part of Indian Reserve No.1 (Nautley), Range 5, Coast District, lying north of the Nautley and Nechako Rivers.

(h) The works authorized to be constructed are intake structure, pump, pressure tank and pipe,

and they shall be located approximately as shown on the attached plan.

(i) The construction of the said works has been commenced, and shall be completed and the water beneficially used on or before the 31st day of December, 1969.

H. D. DeBeck,
Comptroller of Water Rights.

File No. 0267141 Date issued: 15 March 1967 Conditional Licence No. 32076

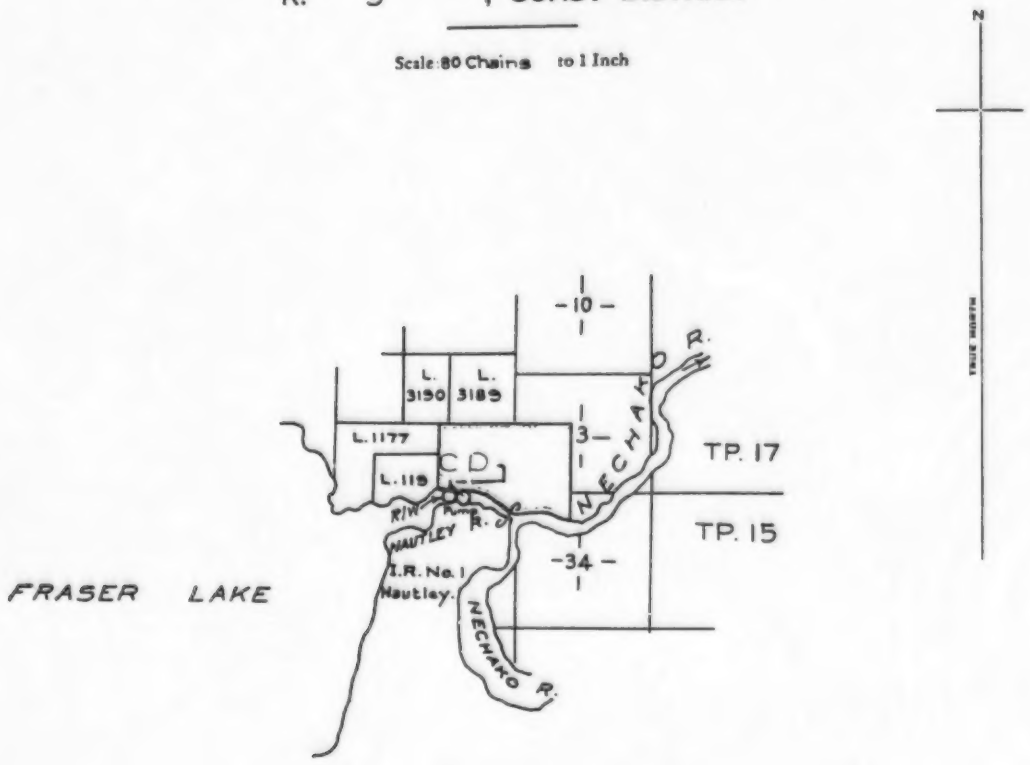
ENTERED ON (C-2)
Map No. 93K/12 SOUR
By B.D.

British Columbia

PRINCE GEORGE
~~FORT FRASER~~ WATER DISTRICT

R. 5 , COAST DISTRICT

Scale: 80 Chains to 1 Inch



LEGEND

Point of Diversion O

Ref. Map ~~93 K/SE (A-3)~~ 93 K (COMP. 20TH)

Pipe

VANDERHOOF PRECINCT

The boundaries of the land to which this licence is appurtenant are shown thus:

Signature

Date March 15, 1967

EXHIBIT "A" 6

For R/W see Ref. Map 93 K/SE (A-3)

CL 32076
File 0267141
R/W Permit No. 6440

100-1269-725

ATTACHMENT 3

PROVINCE OF
BRITISH COLUMBIA

DEPARTMENT OF LANDS, FORESTS,
AND WATER RESOURCES

PERMIT UNDER THE WATER ACT AUTHORIZING THE OCCUPATION OF CROWN LAND

Director, Indian Affairs Branch,
Department of Northern Affairs and
National Resources of Ottawa, Ontario

the holder(s) of Conditional Water Licence No. 32076 authorizing

the diversion of water from Nautley River is/are hereby

authorized to occupy Crown land by
constructing, maintaining and operating thereon the works authorized under the said water licence and any licences which may be issued in substitution thereof.

(*a*) The Crown land which is authorized to be occupied under this permit is
a portion of unsurveyed foreshore and land covered by water situated in Nautley River, Range 5, Coast District, the location of which is shown approximately on the plan attached to the said water licence.

(*b*) The approximate dimensions of the Crown land authorized to be occupied under this permit are
270 feet in length and 15 feet in width, having an area of 0.09 acre.

(*c*) ~~Subject to the payment of royalty, stumpage, and other compensation as provided under Condition 5, the permittee is authorized to~~

(*d*) The annual rental for this permit is $ 2.00 , which is subject to review and revision at any time at the discretion of the Crown.

(*e*) This permit is appurtenant to the land to which the aforesaid water licence is appurtenant.

(*f*) The conditions relative to the rights granted under this permit are printed on the back of this form.

Deputy Minister of Lands.

File No. 0267141

Ref. Map 93 K/SE (A 3)

W.R. Map ----- Date issued: 15 March 1967 Permit No. 6440

W.R.B. 12—5M-865-7854

PROVINCE OF
BRITISH COLUMBIA

DEPARTMENT OF LANDS, FORESTS,
AND WATER RESOURCES

PERMIT UNDER THE WATER ACT AUTHORIZING THE OCCUPATION OF CROWN LAND

Superintendent General of Indian Affairs (Stuart Lake Agency),
OTTAWA, Ontario

the holder(s) of Conditional/~~Final~~ Water Licence(s) 35710 authorizing
the diversion of water from
Fraser Lake
is/are hereby

authorized to occupy Crown land by constructing, maintaining, and operating thereon the works authorized under the said water licence and any licences which may be issued in substitution thereof.

(*a*) The Crown land which is authorized to be occupied under this permit is a portion of
unsurveyed foreshore and land covered by water situated in Fraser Lake, Range 5, Coast District.

the location of which is shown approximately on the plan attached to the said water licence.

(*b*) The approximate dimensions of the Crown land authorized to be occupied under this permit are
75 feet in length and 15 feet in width, having an area of 0.03 acre.

(*c*) ~~Subject to the payment of royalty, stumpage, and other compensation as provided under Condition 6, the permittee is authorized to cut and remove from the said land any timber the removal of which is necessary to permit construction and maintenance of the said works.~~

(*d*) The annual rental for this permit is $ 2.00 , which is subject to review and revision at any time at the discretion of the Crown.

(*e*) This permit is appurtenant to the land to which the aforesaid water licence is appurtenant.

(*f*) The conditions relative to the rights granted under this permit are printed on the back of this form.

D. Bontenbal
Deputy Minister of Lands.

File No. 0277583

Ref. Map 93 K/SE (A-2)

W.R. Map ---

Date issued: 1 June 1970 Permit No. 7581

W.R.D. 12a—434-689-2939

Province of British Columbia

Ministry of Environment and Parks

PERMIT UNDER THE WATER ACT AUTHORIZING THE OCCUPATION OF CROWN LAND

The holders of Conditional Water Licence 64618, whose licence authorizes the diversion of water from Fraser Lake, are hereby authorized to occupy Crown Land by constructing, maintaining and operating thereon the works authorized under the said licence and any licence which may be issued in substitution thereof.

(a) The Crown Land which is authorized to be occupied under this permit is a portion of Foreshore and Unsurveyed land, Range 5, Coast District covered by the water of Fraser Lake, the location of which is shown approximately on the plan attached to the said water licence.

(b) The approximate dimensions of the Crown Land authorized to be occupied under this permit are 580 feet in length and 15 feet in width and having an area of 0.2 acre.

(c) The permittee may cut and remove from the said Crown Land any timber necessary to permit construction and maintenance of the said works. Prior to the cutting, destruction or flooding of any timber, the permittee shall apply for and obtain a licence to cut timber from the District Manager and the amount of stumpage, royalty and (or) compensation payable to the Crown in respect of trees, including merchantable or young growth, cut, removed, damaged, or destroyed by the permittee, shall be the sum or sums fixed by the Forest Service of the Province of British Columbia.

(d) This permit is appurtenant to the land, mine or undertaking to which the aforesaid water licence is appurtenant.

(e) This permit shall become void if the water licence with respect to which the permit is issued should terminate, be abandoned or cancelled, or amended so as to render this permit unnecessary.

(f) This permit is issued and accepted on the understanding that the permittee shall indemnify and save harmless the Government of the Province of British Columbia for all loss, damage to works, cost or expense suffered by the permittee by reason of the Crown Land or any portion thereof being submerged or damaged by erosion or otherwise affected by flooding.

(g) The holder of this permit shall not be entitled to compensation if the Crown grants permits to other persons to occupy the land affected by this permit.

(h) In the event of a dispute at any time with respect to the area or boundaries of the land affected by this permit, the holder shall, at his own expense, have the said land surveyed by a duly qualified surveyor.

(i) The annual rental for this permit is $5.00, which is subject to review and revision at any time at the discretion of the Crown.

T. R. Johnson
Deputy Minister of Environment and Parks

File No. 7000146 Date Issued: JAN 21 1988 Permit No. 16005

ATTACHMENT 4

Stream Register Report **Water Licence Information System**

Report Requested By : EHANCOCK
Date Report Requested : 1998/09/22 10:47
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : 0022216 - Stalkaho River right of Fraser Lake
END POINT : 0022239 - Fraser Lake on Nautley River

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		NR Map	POD RED POD Comments					Proc	
1957/07/15	C047695	0216934	14.9 AC OF L 3040 R 5 COAST DIST EXC PLAN 4023,5116, 5093,6876,7161 & THAT PART LYING NE OF RD ON PLAN 5116 & W OF PLAN 4023	FORBEY CLAYTON S BOX 189 FORT FRASER BC V0J1R0	IRR	21.75 AF	Apr 01	Sep 30	
Fraser Lake		NR93.E.007	F N					24E PG - VANDERHOOF	
1957/07/15	C047696	0240552	5.5 AC OF L 3040 R 5 COAST DIST PLAN 5093	FORBEY CLAYTON S BOX 189 FORT FRASER BC V0J1R0	IRR	8.25 AF	Apr 01	Sep 30	
Fraser Lake		NR93.E.007	F N					24E PG - VANDERHOOF	
1962/10/23	P019300	0266930	L 1177 R 5 COAST DIST	EVANS WILLIAM E EVANS LILLIAN E HAUTLEY RIVER RANCH BOX 181 FORT FRASER B C V0J1R0	DOM	2,000.00 GD	Jan 01	Dec 31	
Fraser Lake		NR93.E.007	D N					24E PG - VANDERHOOF	
1964/05/18	C029960	0258643	HBE FILE	FRASER LAKE VILLAGE OF BOX 430 FRASER LAKE BC V0J1R0	MUNLA	18,250,000.00 CY	Jan 01	Dec 31	
Fraser Lake		NR91.E.006	G N					24E PG - VANDERHOOF	
1966/07/20	C032021	0270279	L 2066A,2004B,2005,2041 R 5 COAST DIST EXC H 75688 PROV HWY (PLAN 4167) & CNR R/W	PARKS BRANCH NORTHERN BC REGION 430-1011-4TH AVE PRINCE GEORGE BC V2L3H9	WHSOT	10,000.00 GD	Jan 01	Dec 31	
Fraser Lake		NR93.E.007	A N					24E PG - VANDERHOOF	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source			NR Map	POD NRD POD Comments					Prov	
1967/01/23	C032770	0270963	L 1170 R S COAST DIST	PEMBERTON TERRACE & WEBSTER BOX 220 FRASER LAKE BC V0J1S0	DOM	500.00 CD	Jan 01	Dec 31		
Fraser Lake			NR93.E.006	J R					24E PO - VANDERHOOF	
1967/07/31	C032710	0277503	IR 94 (GRANTHORNEY) R S COAST DIST EXC CODE R/W & R TRANS PROV HWY	NADLEH WHUTEN INDIAN BAND 995-612-7472 BOX 36 FORT FRASER BC V0J1R0	WANDY	20,000.00 CD	Jan 01	Dec 31	FORMERLY FRASER LAKE INDIAN BAND	
Fraser Lake			NR93.E.007	E R					24E PO - VANDERHOOF	
1970/07/14	C062041	0364401	L 2007 R S COAST DIST EXC PLAN 1153	FRASER LAKE SAWMILLS LTD BOX 100 FRASER LAKE BC V0J1R0	PRICE IRRTR	4,000.00 CD 4,500.00 CD	Jan 01 Jan 01	Dec 31 Dec 31	SAWMILL WAREHOUSE	
Fraser Lake			NR93.E.007	C R					24E PO - VANDERHOOF	
1970/12/30	C057143	0355021	ALL THE LANDS WITHIN THE BDYS OF	FRASER LAKE VILLAGE OF BOX 430 FRASER LAKE BC V0J1R0	WMELA	122,440,000.00 CY	Jan 01	Dec 31		
Fraser Lake			NR93.E.006	G R					24E PO - VANDERHOOF	
1985/10/17	C064610	7000160	L 5 BLK A PLAN 5134 EXCEPTING IR 81 R S COAST DIST	VOTH GEORGE R & MARY E CD FORT FRASER BC V0J1R0	DOM	500.00 CD	Jan 01	Dec 31	LAND LEASED TO VOTH GEORGE R & MARY E	
Fraser Lake			NR93.E.007	J R					24E PO - VANDERHOOF	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source			NR Map	POD	RED POD Comments				Proc	
1991/12/10	C104080	7000970	LOT 1 OF DISTRICT LOT 3040 NANOE S CO ADV PLAN 5116	SCOTT MARY-ANN PO BOX 1671 VANDERHOOF BC V0J3A0		DOM	500.00 GD	Jan 01	Dec 31	CERTIFICATE OF TITLE SHOWS MARY-ANN SCOTT AS THE PROPERTY OWNER BUT THE APPLICANT IS GEORGE SCOTT A PCL IS REQUIRED FOR 300'X15' FORESHORE & UCL COAST NANOE S FRASER LAKE
Fraser Lake			NR03.K.007	E	N					268 PG - VANDERHOOF

---------- Total of 11 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : KHADOCK
Date Report Requested : 1995/09/22 10:55
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : HG22229 - Fraser Lake on Nautley River
END POINT : HG22219 - Nautley River left of Nechako River

Stream Register Report

Water Licence Information System

DATE: 1995/09/22
TIME: 10:55
PAGE: 001

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	POD	RED POD	Comments	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
	Source		WR Map										Proc
1966/01/24	C032076	0267141	THAT PART OF IR #1 (HAUTLEY) R S COAST DIST LYING N OF HAUTLEY R & RICHARD R	HADLEH WHUTEN INDIAN BAND 985-612-7469 BOX 36 FORT FRASER BC V0J1N0				WHEOT	20,000.00 CD	Jan 01	Dec 31	FORMERLY FRASER LAKE INDIAN BAND	
	Hautley River		WR93.E.000	D	N							24E PG - VANDERHOOF	
	Hautley River		WR93.E.000	C	N								

---------- Total of 1 Licence Reported ----------

ATTACHMENT 5

NAUTLEY RIVER NEAR FORT FRASER - STATION NO. 08JB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	137 E ON MAY 31	---	---	1952
1953	---	144 ON MAY 19	5.97 ON MAR 22	886 000	1953
1954	---	96.8 ON JUN 25	6.80E ON JAN 01	934 000	1954
		134 ON JUN 14	9.91B ON APR 01	1 550 000	
1955	---	81.0 ON MAY 29	5.66B ON NOV 22	955 000	1955
1956	---	62.9 ON MAY 28	6.65B ON DEC 31	603 000	1956
1957	---	85.2 ON MAY 29	6.23B ON JAN 10	964 000	1957
1958	---	160 ON MAY 12	11.4 B ON DEC 19	1 350 000	1958
1959	---	136 ON MAY 26	10.1 B ON APR 04	1 490 000	1959
1960	---	140 ON JUN 02	8.21 ON DEC 21 *	1 290 000	1960
1961	---	103 ON MAY 30	-10.0 ON SEP 04 *	826 000	1961
1962	---	94.9 ON JUL 06	7.66B ON JAN 01	969 000	1962
1963	---	94.3 ON MAY 30	7.76B ON DEC 17	975 000	1963
1964	---	127 ON JUN 13	8.33 ON FEB 28	1 200 000	1964
1965	---	121 ON JUN 03	10.2 ON OCT 20	1 100 000	1965
1966	---	132 ON MAY 18	11.3 ON MAR 21	1 120 000	1966
1967	---	176 ON MAY 28	8.69B ON DEC 31	1 240 000	1967
1968	---	181 ON MAY 31	6.99B ON JAN 07	1 260 000	1968
1969	---	89.5 ON JUN 09	11.5 ON MAR 30	901 000	1969
1970	---	81.0 ON MAY 29	7.36 ON DEC 24	765 000	1970
1971	---	96.6 ON MAY 30	7.42E ON JAN 01	1 100 000	1971
1972	---	218 ON JUN 18	10.7 B ON FEB 14	1 680 000	1972
1973	---	90.0 ON MAY 25	9.34E ON NOV 23	890 000	1973
1976	---	234 A ON MAY 26 *	13.9 E ON MAR 30	2 160 000	1976
1977	180 AT 23:10 PST ON MAY 10 *	174 ON MAY 11	11.2 E ON DEC 28	1 250 000	1977
1978	80.4 AT 07:21 PST ON MAY 29	78.2 ON MAY 28	8.21 ON MAR 24	804 000	1978
1979	137 AT 14:10 PST ON MAY 28	134 ON MAY 27	3.31E ON DEC 14	1 010 000	1979
1980	35.2 AT 17:15 PST ON MAY 31	32.4 ON MAY 25	4.50B ON FEB 01	442 000	1980
1981	107 AT 19:50 PST ON JUN 05	93.0 ON JUN 04	6.15E ON DEC 31	809 000	1981
1982	---	117 ON JUN 07	6.10E ON JAN 01	883 000	1982
1983	42.5 AT 08:20 PST ON JUL 25	41.4 ON JUL 19	5.92 ON MAR 27	544 000	1983
1984	65.2 AT 07:35 PST ON MAY 31	62.7 ON MAY 31	6.43E ON JAN 12	611 000	1984
1985	88.7 AT 18:39 PST ON JUN 04	87.7 ON JUN 04	3.55E ON DEC 30	655 000	1985
1986	73.4 AT 17:45 PST ON JUL 01	62.9 ON JUN 25	3.60E ON JAN 01	584 000	1986
1987	76.8 AT 08:15 PST ON MAY 17	76.0 ON MAY 17	5.90 ON OCT 27	661 000	1987
1988	73.6 AT 12:50 PST ON JUN 18	68.5 ON JUN 18	9.34 ON MAR 22	691 000	1988
1989	83.7 AT 19:25 PST ON MAY 18	79.8 ON MAY 19	7.90B ON MAR 04	682 000	1989
1990	82.9 AT 16:40 PST ON MAY 05	71.1 ON JUN 11	5.15B ON NOV 30	790 000	1990
				990 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NAVER CREEK AT HIXON - STATION NO. 08KE014

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	19.6	37.8	28.0	4.36	0.985	0.642	1.76	2.62	0.817	---	1956
1957	0.258	0.088	0.654	16.1	39.0	10.5	14.4	12.9	3.23	2.94	18.3	5.96	10.4	1957
1958	2.05	2.47	3.79	28.6	32.3	4.78	2.03	0.346	2.03	---	---	---	---	1958
1959	---	---	---	---	---	---	---	---	---	12.8	9.81	4.64	---	1959
1960	1.70	1.24	1.86	22.5	34.3	20.8	2.17	4.37	5.05	---	---	---	---	1960
1962	---	---	---	30.7	31.5	13.4	9.13	8.48	1.74	15.6	8.42	9.29	---	1962
1963	---	---	8.69	28.0	40.0	7.79	4.84	5.69	4.94	9.51	2.05	1.59	---	1963
1964	1.59	1.59	1.82	13.3	36.1	22.8	5.48	16.2	14.5	9.55	4.52	1.84	10.8	1964
1965	1.74	1.42	1.30	25.4	32.4	10.2	1.91	2.12	1.26	6.12	4.73	1.98	7.56	1965
1966	1.04	0.899	5.82	24.2	31.6	13.6	9.09	5.20	1.79	5.41	6.10	2.05	8.27	1966
1967	1.70	1.51	1.68	13.2	28.7	16.6	2.67	1.76	1.06	3.49	8.85	2.59	8.53	1967
1968	3.13	2.51	11.6	12.3	28.7	16.1	7.75	1.02	6.20	7.12	4.47	2.72	8.74	1968
1969	1.00	0.697	1.30	28.0	13.1	2.63	1.41	3.41	7.53	7.70	10.5	4.22	6.78	1969
1970	1.23	0.803	3.05	12.3	30.4	10.8	1.14	0.882	1.88	4.27	1.82	0.673	5.83	1970
1971	0.867	1.34	1.30	24.1	26.4	8.49	7.90	0.778	1.23	2.55	4.50	1.98	6.80	1971
1972	1.19	0.910	17.6	21.8	29.1	14.7	4.04	0.731	0.693	2.21	5.05	2.55	9.24	1972
1973	1.16	1.04	1.85	16.8	29.4	9.66	1.91	0.712	1.57	11.5	1.69	1.13	6.66	1973
1974	0.956	1.06	2.24	38.6	40.6	20.8	8.65	1.09	0.746	2.05	1.17	0.964	9.92	1974
1975	0.831	0.706	0.832	12.2	28.5	15.2	4.23	4.99	2.01	2.53	---	---	---	1975
MEAN	1.37	1.22	4.07	21.6	33.2	13.7	5.17	3.91	3.28	6.07	5.98	2.81	8.34	MEAN

LOCATION - LAT 53 25 35 N
LONG 122 35 20 W
DRAINAGE AREA, 658 km^2
NATURAL FLOW

NAUTLEY RIVER NEAR FORT FRASER - STATION NO. 08JB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

TOTAL DISCHARGE (dam³)	YEAR	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DE
-	1941	1950	---	---	---	---	---	---	---	---	17.6	11.4	8.45	8.
-	1942	1951	---	---	---	11.6	65.9	86.2	40.5	26.5	12.9	8.94	7.25	7.
-	1943	1952	7.56	7.35	6.50	11.3	79.2	89.2	58.8	30.7	15.7	13.0	8.87	7.
-	1944	1953	7.54	8.76	7.35	8.27	44.1	88.3	74.2	43.7	16.7	15.3	17.8	1.
---	1945	1954	11.7	13.7	11.3	10.4	48.3	126	88.0	78.9	67.8	40.8	44.4	1.
---	1946													
---	1947	1955	33.4	26.0	20.8	22.3	53.1	71.4	46.6	34.8	22.5	18.3	7.32	8.
---	1948	1956	10.1	8.65	7.87	13.0	46.2	50.3	32.4	20.1	13.0	10.6	8.09	7.
---	1949	1957	6.64	8.20	9.17	7.94	48.1	60.9	45.4	30.6	21.9	20.1	20.5	32.
---	1950	1958	33.4	29.4	21.9	39.6	134	109	55.7	30.8	22.6	18.8	15.4	15.
---	1954	1959	12.4	12.7	11.6	17.0	84.5	116	111	58.7	37.5	28.2	36.0	37.
---	1958	1960	30.4	24.6	21.3	32.9	102	112	65.9	34.7	23.9	16.0	15.2	11.
---	1959	1961	11.6	10.9	10.8	18.1	72.9	84.0	44.1	21.6	9.01	16.6	7.43	6.
---	1960	1962	6.96	7.85	8.23	13.2	31.9	79.0	80.7	48.3	26.3	19.5	21.5	22.
---	1961	1963	20.4	16.1	15.6	24.5	79.1	76.1	49.1	33.2	20.9	15.5	10.8	8.
---	1962	1964	9.33	9.53	9.10	13.0	54.1	109	73.7	65.8	34.3	32.1	25.7	18.
---	1963													
---	1964	1965	17.3	16.9	16.1	22.0	93.4	99.6	58.9	35.1	17.6	11.5	14.1	13.
---	1965	1966	13.6	11.9	12.0	24.9	102	101	54.7	27.7	20.2	13.9	18.6	19.
---	1966	1967	17.2	15.5	13.4	18.6	113	140	65.7	36.8	17.4	12.4	10.4	9.
---	1967	1968	8.39	11.3	11.1	14.3	89.3	138	72.1	37.5	21.0	20.7	30.7	25.
---	1968	1969	19.5	16.8	12.2	20.2	55.2	79.9	45.9	23.5	15.8	14.9	16.4	22.
---	1969													
---	1965	1970	17.8	16.1	14.3	18.3	51.3	66.8	36.7	23.1	16.4	12.0	9.64	8.
---	1966	1971	7.01	8.55	8.36	10.1	69.0	88.9	65.8	44.4	25.7	16.4	15.7	13.
2 020 000	1967	1972	11.8	11.1	11.7	21.9	121	192	122	61.2	29.3	16.6	18.6	18.
2 440 000	1968	1973	15.8	14.1	13.1	16.7	84.7	79.8	51.8	28.2	17.6	14.4	11.0	10.
1 860 000	1969													
1 810 000	1970													
1 920 000	1971	1976	16.4	16.6	14.9	32.2	186	197	135	92.5	48.3	30.8	23.6	23.
2 580 000	1972	1977	13.7	11.1	10.0	44.4	147	81.6	48.0	29.7	18.2	16.9	12.7	11.
1 770 000	1973	1978	10.9	11.1	8.99	14.5	59.9	69.7	40.2	25.5	17.8	13.3	12.8	13.
---	1974	1979	12.5	12.5	11.7	13.9	107	104	57.6	28.8	14.5	9.81	6.01	4.
1 500 000	1975													
2 570 000	1976	1980	5.01	4.75	5.61	8.71	27.2	28.4	23.0	14.3	13.0	11.6	12.1	13.
1 890 000	1977	1981	15.7	13.7	11.8	15.2	56.7	80.0	48.8	24.6	14.0	9.81	8.45	7.
1 200 000	1978	1982	8.82	8.55	8.95	9.33	57.1	99.6	57.7	32.0	19.1	13.4	10.9	9.
1 500 000	1979	1983	7.24	6.61	6.12	9.58	31.5	31.2	37.4	30.2	17.3	11.8	9.18	7.
		1984	6.89	8.15	8.17	15.8	42.9	52.3	33.6	19.4	14.6	12.5	9.23	8.
1 130 000	1980													
1 760 000	1981													
1 800 000	1982	1985	8.49	7.46	8.59	12.5	45.3	72.3	40.0	20.9	12.8	9.42	7.00	3.
1 830 000	1983	1986	4.28	4.74	5.90	10.5	42.4	56.5	48.0	24.1	15.6	11.3	8.34	8.
1 820 000	1984	1987	7.60	7.35	7.51	18.0	63.8	58.5	34.0	19.6	13.7	9.87	11.6	8.
2 070 000	1985	1988	9.99	10.0	9.81	11.9	41.1	66.2	40.7	23.5	12.6	10.6	9.03	11.
1 360 000	1986	1989	10.0	8.51	9.14	14.2	65.1	52.5	32.4	21.6	14.4	10.5		10.
1 [illegible] 90	1987	1990	13.0	12.2	11.5	24.6	61.0	65.5	47.5	25.3	14.2	10.5	8.02	6.
1 800 000	1988	MEAN	13.3	12.4	11.5	17.5	71.6	88.2	57.7	35.2	21.3	15.8	14.4	14.
	1989													
	1990													
	MEAN													

LOCATION - LAT. 54 05 07 N DRAINAGE AREA, 6 030 km²
LONG 124 35 58 W NATURAL FLOW

C	MEAN	YEAR
0	77.0	1981
4	86.3	1982
7	70.3	1983
9	85.4	1984
9	59.0	1985
9	78.4	1986
5	75.9	1987
3	92.7	1988
4	55.8	1989
5	75.6	1990
3	75.6	MEAN

AL DISCHARGE (dam³)	YEAR
2 430 000	1981
2 720 000	1982
2 220 000	1983
2 700 000	1984
1 860 000	1985
2 470 000	1986
2 390 000	1987
2 210 000	1988
1 760 000	1989
2 3[illegible]	1990
2 39[illegible]	MEAN

ATTACHMENT 6

22/09/95

Ministry of Environment - Water Management Branch - Groundwater Section
Groundwater Database System
Data Summary - with Legal Descriptions and Old Coordinates

BCGS Map Area	Well No.	Well Tag No.	Loc No.	Plan No.	Blk No.	TP	SC	RG	D.L.	Z	X	Y	Old Well No.	L.D.	Site Address	Date Constructed (dmy)	Well Depth (ft.)	Well Diam. (in.)	Drill Contr No.	Const. Method	Well Yield	Yld. Unt.	Depth to Water (ft.)	Depth to Bedrk (ft.)	Aquif Litho	Screen Interval (ft.)	G.W. Rpt
093E.007.3.1.3	001	0000000031469								04	43	21	001	14	INDIAN RESERVE NO 4	13-05-1968	11.0	8.0	UNK	DUG			3	UNK	UNCO		
093E.007.3.1.2	002	0000000026873								04	43	21	002	14		09-10-1970	307.0	6.0	021	DRI			UNK	281	SAND		
093E.007.3.1.6	001	0000000001430								04	43	21	003	14	INDIAN RESERVE NO 4	01-01-1922	0.0	0.0	UNK	DUG			UNK	UNK	UNCO		
093E.007.3.1.4	002	0000000029907								04	43	21	004	14		01-03-1976	101.0	6.0	059	DRI			UNK	UNK	UNC		
093E.007.3.1.4	003	0000000059662								00	00	00	000	14	OLD LEJAC SCHOOL SIT	11-05-1991	300.0	6.0	026	DRI	25.0	GPM	25		UNCO		
093E.008.3.3.1	001	0000000011775								04	44	34	001	14		01-01-1950	400.0	0.0	UNK	DRI	1.0	GPM	UNK	298	SAND		
093E.008.3.3.1	002	0000000042715				15	3	5		04	44	34	002	14	HAUTLEY RESERVE	01-07-1979	440.0	0.0	044	DRI			UNK	UNK	UNC		
093E.008.3.3.1	003	0000000055950								04	44	27	001	14	HAUTLIE INDIAN RESER	01-05-1986	80.0	0.0	026	DRI			UNK	UNK	UNC		
093E.008.3.3.1	004	0000000055952								04	44	27	002	14	HAUTLIE INDIAN RESER	01-05-1986	82.0	6.0	026	DRI	12.0	GPM	49	UNK	UNC	70-82	

DISCLAIMER: The Province disclaims all responsibility for the accuracy of this information. This information should not be used as a basis for making financial or any other commitments.

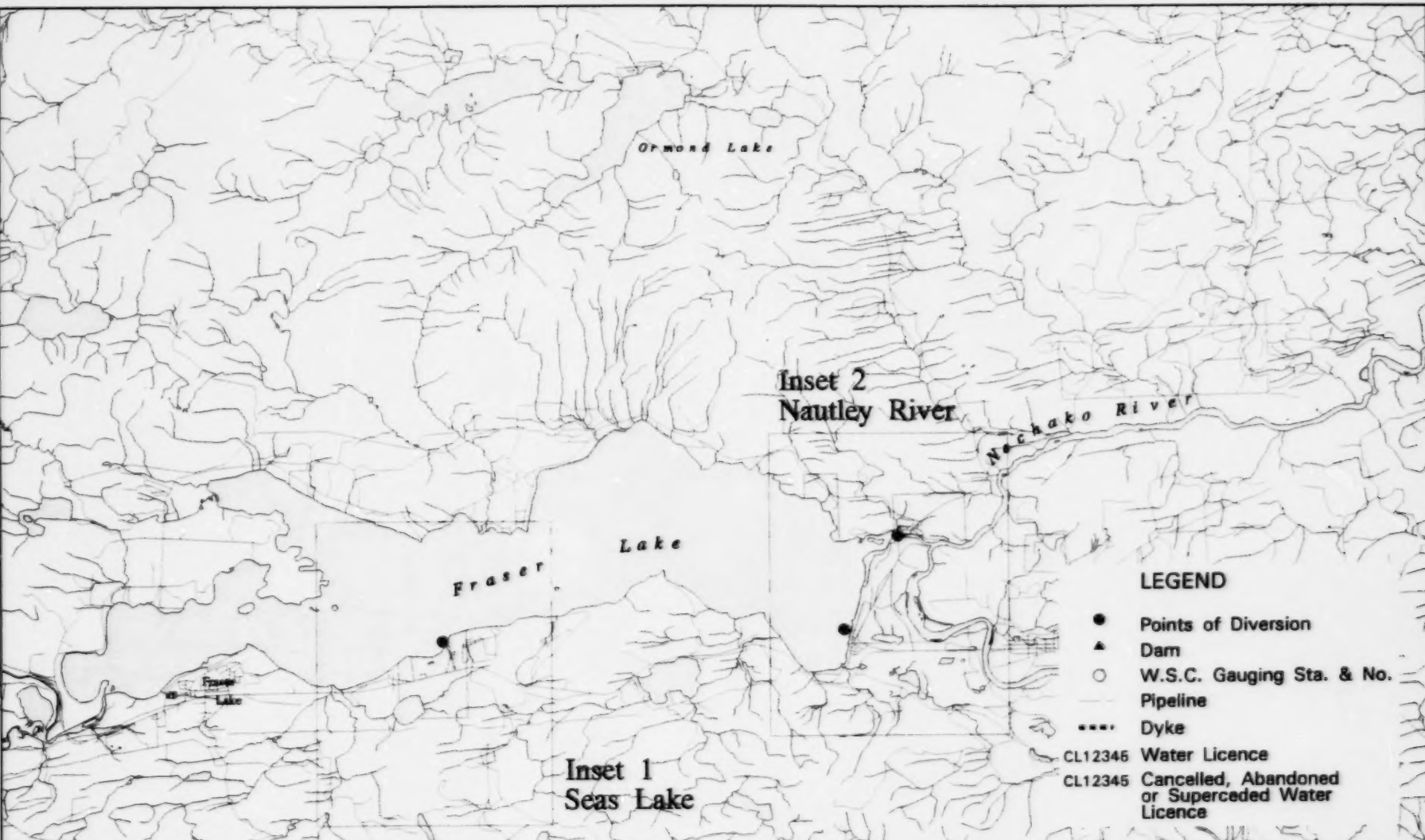
22/09/95

Ministry of Environment - Water Management Branch - Groundwater Section
Groundwater Database System
Data Summary - with Legal Descriptions and Old Coordinates

NCGS Map Area	Well No.	Well Tag No.	Lot No.	Plan No.	Blk No.	TP	SC	RG	D.L.	I	X	Y	Old Well No.	L.D.	Site Address	Date Constructed (dmy)	Well Depth (ft.)	Well Diam. (in.)	Drill Contr No.	Const. Method	Well Yield	Yld. Unc.	Depth to Water (ft.)	Depth to Bedrk (ft.)	Aquif Litho	Screen Interval (ft.)	G.W. Rpt
093E.007.4.4.3	001	000000053009								04	44	27	003	14	HAOTLIS INDIAN RESER	01-09-1986	80.0	6.0	024	DRI	3.0	GPM	UNK	UNK	UNC	61-68	
093E.007.4.4.2	002	000000055943								00	00	00	000	14	FT. FRASER	01-05-1986	79.0	6.0	024	DRI			55		UNC		
093E.007.4.4.2	003	000000041292								00	00	00	000	05	KNOWTLY RESERVE	01-01-1979	400.0	0.0	044	DRI	10.0	GPM	UNK	380	BED		

DISCLAIMER: The Province disclaims all responsibility for the accuracy of this information. This information should not be used as a basis for making financial or any other commitments.

ATTACHMENT 7



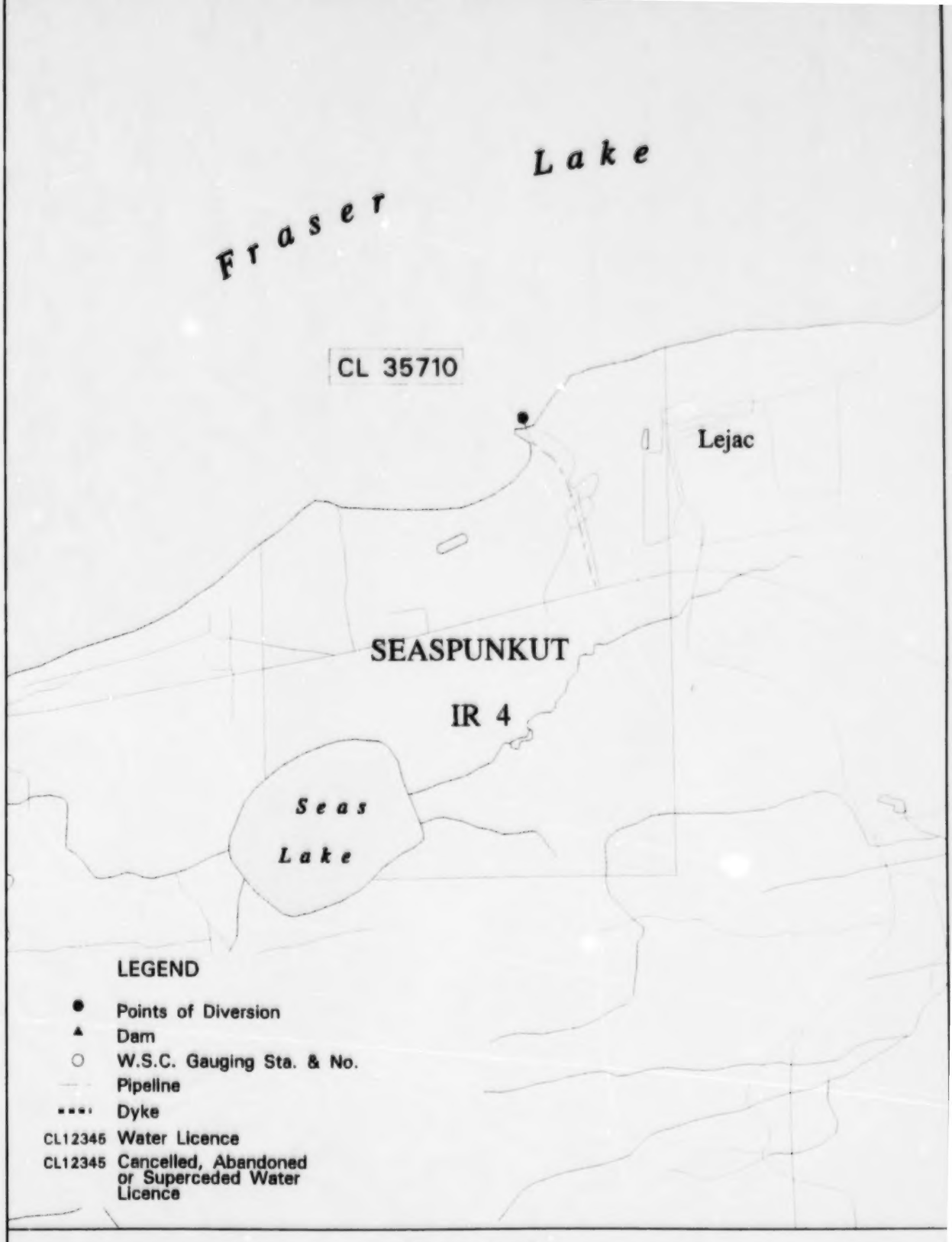
Nadleh Whuten

Scale 1:125,000

Ministry of Environment, Lands & Parks

Date: October 23, 1997

Environment & Lands Division



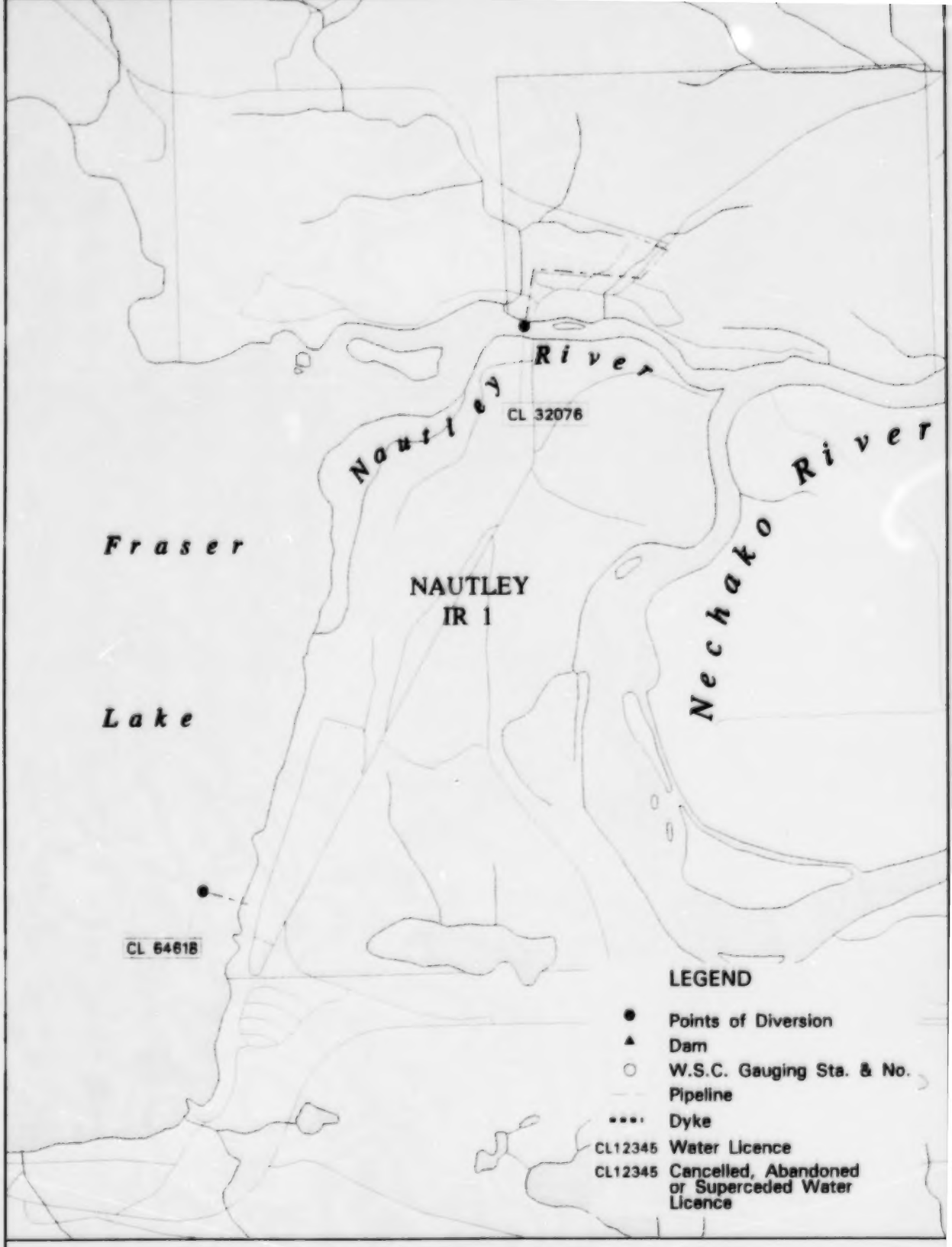
Seas Lake

Scale 1:20,000

Ministry of Environment, Lands & Parks

Date: October 27, 1997

Environment & Lands Division



Nautley River

Scale 1:20,000

Ministry of Environment, Lands & Parks Date: October 27, 1997 Environment & Lands Division